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**DATE:** August 24, 2005  
**FILE NO:** WEAT/0313  
**TO:** Mall Stop AF  
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**FAX NO:** 571-273-8300  
**COMPANY:** USPTO  
**FROM:** William B. Patterson  
**PAGE(S) with cover:** 11  
**ORIGINAL TO FOLLOW?** ☐ YES ☒ NO

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### RESPONSE TO FINAL OFFICE ACTION DATED JUNE 24, 2005

**U.S. SERIAL NO.:** 10/648,815  
**CONFIRMATION NO.:** 4562  
**CUSTOMER NO.:** 36735  
**FILING DATE:** August 26, 2003  
**TITLE:** WELLBORE PUMPING WITH IMPROVED  
TEMPERATURE PERFORMANCE  
**INVENTOR:** William F. Howard, et al.  
**EXAMINER:** Giovanna M. Collins  
**GROUP ART UNIT:** 3672

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## PATENT

Alt. Dkt. No. WEAT/0313

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
William F. Howard, et al

**Serial No.: 10/648,815**

**Confirmation No.: 4562**

**Filed: August 26, 2003**

**For: WELLBORE PUMPING WITH  
IMPROVED TEMPERATURE  
PERFORMANCE**

1. **What is the purpose of the document?**  
 2. **What are the main findings of the study?**  
 3. **What are the implications of the findings?**  
 4. **What are the limitations of the study?**  
 5. **What are the conclusions of the study?**  
 6. **What are the recommendations of the study?**  
 7. **What are the future research directions?**  
 8. **What are the acknowledgments?**  
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 10. **What are the appendices?**  
 11. **What are the footnotes?**  
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**Group Art Unit: 3672**

**Examiner:** Giovanna M. Collins

**Customer No. 36735**

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**Dear Sir,**

I hereby certify that this correspondence is being facsimile  
 transmitted to the U.S. Patent and Trademark Office on  
24 May, 2005.  
William B. Patterson  
 Signature  
William B. Patterson  
 Typed or Printed Name  
34,102  
 Registration No., if applicable  
(713) 623-4844  
 Telephone Number

**RESPONSE TO FINAL OFFICE ACTION DATED JUNE 24, 2005**

In response to the Final Office Action dated June 24, 2005, having a shortened statutory period for response set to expire on September 24, 2005, please enter this response and reconsider the claims pending in the application for reasons discussed below. Although Applicant believes that no additional fees are due in connection with this response, the Commissioner is hereby authorized to charge counsel's Deposit Account No. 20-0782/WEAT/0313/WBP, for any fees, including extension of time fees or excess claim fees, required to make this response timely and acceptable to the Office.

**Amendments to the Specification begin on page 2 of this paper.**

**Amendments to the Claims** are reflected in the listing of claims which begins on page 3 of this paper.

**Remarks/Arguments** begin on page 9 of this paper.

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